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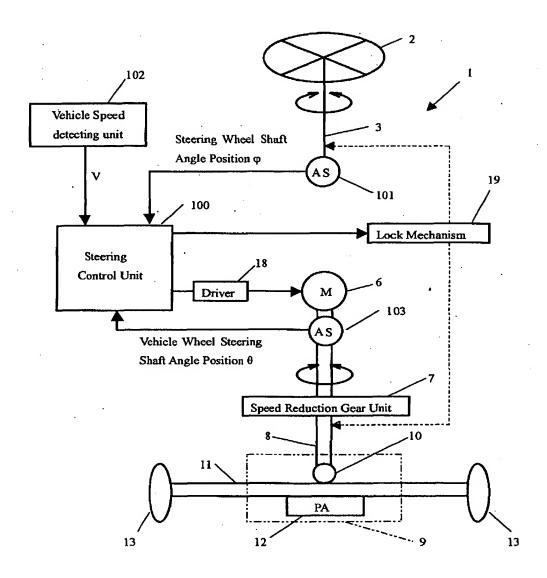


FIG. 1

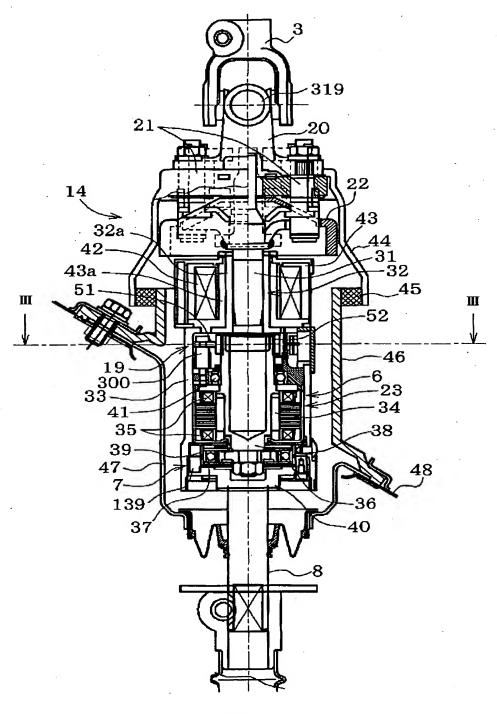


FIG. 2

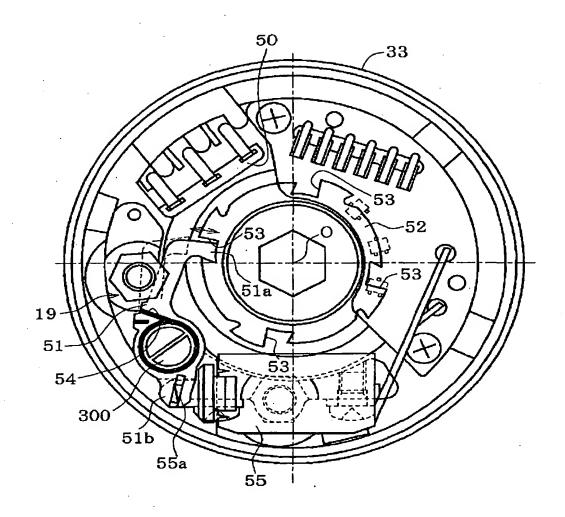


FIG. 3

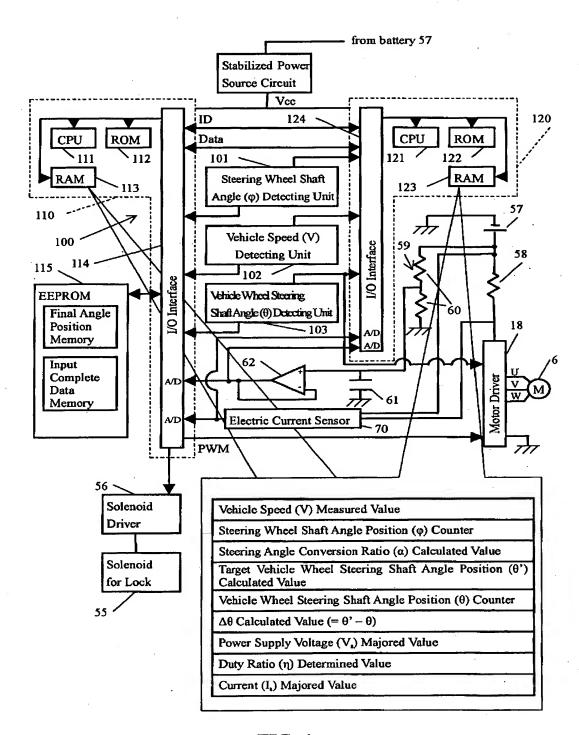


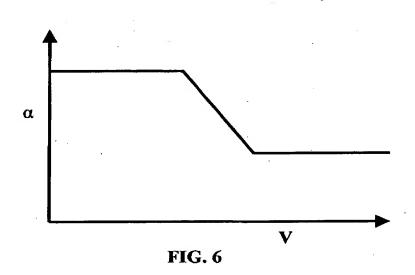
FIG. 4

130					
Vehicle Speed (V)	V ₁	V ₂	V ₃	•••••	V _n
Steering Angle Exchanging Ratio (a)	α	α2	α3		a _n

 $\alpha=\theta/\phi$ ϕ : Angular position of handle shaft

 θ : Angular position of steering shaft

FIG. 5



13	1						
	Δθ ν.	V _{s1}	V _{s2}	V _{a3}	V,4		V _m
	Δθι	ηιι	η12	η ₁₃	η ₁₄		H _{ln}
	$\Delta\theta_2$	η ₂₁	η ₂₂	η ₂₃	η ₂₄		H _{2n}
	$\Delta\theta_3$	η ₃₁	η ₃₂	η ₃₃	η ₃₄	•••••	H _{3n}
	$\Delta\theta_4$	η41	η ₄₂	η ₄₃	η ₄₄		H _{4n}

η: Duty Ratio

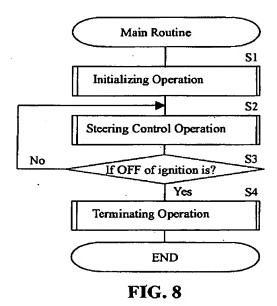
 θ ': Target angular position of steering shaft

 $\Delta\theta = \theta$, $-\theta$

 $\boldsymbol{\theta}$: Present angular position of steering shaft

FIG. 7

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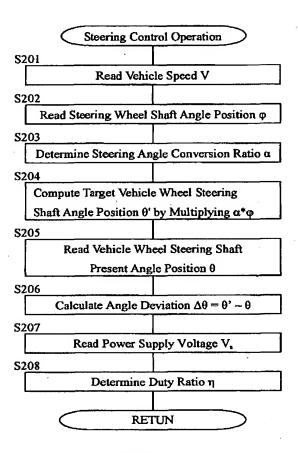


FIG. 9

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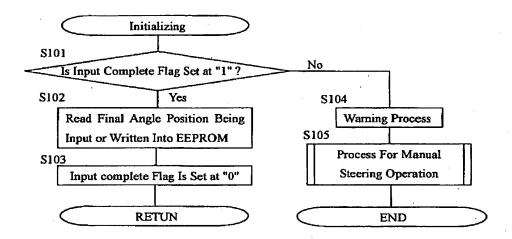


FIG. 10

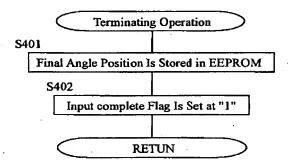


FIG. 11

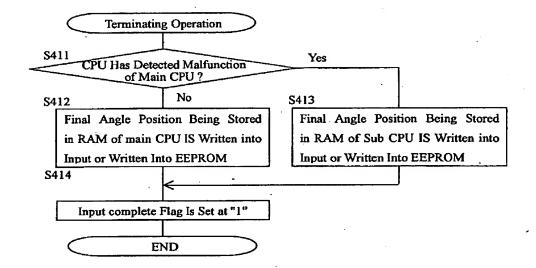


FIG. 12

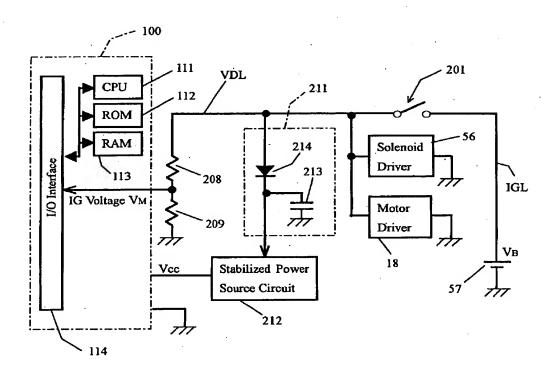


FIG. 13